

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: Unknown )  
Filing Date: Unknown )  
Priority Date: 12 August 2000 )  
Applicants: COOK, Michael )  
For: IMPROVEMENTS RELATING TO )  
BROADCAST DATA RECEIVERS )

**PRELIMINARY AMENDMENT**

Director For Patents  
Box: New Application  
Washington, D.C. 20231

Dear Sir:

This is a preliminary amendment to the enclosed application entitled "Improvements Relating to Broadcast Data Receivers" claiming priority to British Patent Application No. 0019797.0 filed 12 August 2000.

**In the Specification:**

Please amend the specification as follows:

Page 1, after the title, insert the following header and paragraph:

**--CROSS-REFERENCE TO RELATED APPLICATION**

This application claims priority to British Patent Application No. 0019797.0 filed 12 August 2000

**BACKGROUND OF THE INVENTION--**

Page 1, line 11, change "utilised" to --utilized--; line 13, change "authorised" to --authorized--.

Page 2, before line 10, insert the Header:

## **--SUMMARY OF THE INVENTION--**

line 16, change "characterised" to --characterized--.

Page 3, before line 28, insert the Header:

## **--BRIEF DESCRIPTION OF THE DRAWINGS--**

Page 4, line 1, change "smartcard" to --smart card--; line 2, change "Smart" to --smart--;  
delete "f" and insert --of--; before line 4, add the Header:

## **--DESCRIPTION OF THE PREFERRED EMBODIMENTS--**

Page 6, after the last line, insert the following paragraph:

--While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.--

## **IN THE CLAIMS:**

1. (Amended) An [E] electrical apparatus for the processing of digital data, [and] said electrical apparatus comprising: a processor inserted into said electrical apparatus to render said electrical apparatus operable [is rendered operable by the insertion of a processor into the same] for connection to [the] a processing capability in the electrical apparatus to render the capability operational and detection means [are] being provided in connection with the main[s] power supply to the [receiver] electrical apparatus, prior to rectification of the power supply and [characterised in that] wherein upon detection of failure or absence of AC pulses in the power

supply, the processor capability, or parts of the processor capability of the apparatus are shut down in a controlled manner by the electrical apparatus.

2. (Amended) An electrical apparatus according to claim 1 [characterised in that the wherein said electrical apparatus is a broadcast data receiver [and the processor is provided as part of a smart card].

3. (Amended) An electrical apparatus [A broadcast data receiver] according to claim 2 [characterised in that the] wherein said shut-down procedures are performed prior to the mains power supply failure affecting [the] said processor capability of [the] said broadcast data receiver.

4. (Amended) An electrical apparatus [broadcast data receiver] according to claim 2 [characterised in that the] wherein said shut-down procedure includes shutting down [the] said processing capability of the processor mounted on [the] said smart card which is inserted into [the] said broadcast data receiver and hence prevents damage to said processor.

5. (Amended) An electrical apparatus [broadcast data receiver] according to claim 4 [characterised in that] wherein in addition or alternatively to the shut down of the processor mounted on [the] said smart card, other shut-down procedures can be implemented.

6. (Amended) An electrical apparatus [A broadcast data receiver] according to claim 5 [characterised in that the] wherein said shut down procedure includes storing data relating to a channel which is being viewed at the instant of a power failure.

7. (Amended) An electrical apparatus [A broadcast data receiver] according to claim 2[, characterised in that] wherein data relating to user selections being [is] stored in a storage means as part of [the] said shut down procedure.

8. (Amended) A broadcast data receiver, said receiver provided for the reception and processing of digital data for the generation of video, audio and auxiliary functions, said receiver [is rendered operable by the insertion of a processor integrated circuit into the same] comprising: a processor integrated circuit inserted into said broadcast data receiver for connection to the processing capability within the receiver and wherein detection means are provided in connection with the mains electricity supply to the receiver, prior to rectification and wherein upon detection of failure of AC pulses in the power supply, the processor capability, or parts of the processor capability of the broadcast data receiver [are] being shut down.

9. (New) An electrical apparatus according to claim 1 wherein said processor is provided as part of a smart card.

**REMARKS**

Attached are the marked up versions of the claims and new paragraphs as required in Section 1.121(4) (ii).

The application should now be in condition for examination, which is respectfully requested.

Respectfully Submitted

HEAD, JOHNSON & KACHIGIAN

Dated: 8 August 2001

BY: Paul H. Johnson  
Paul H. Johnson Reg. No. 19,224 for  
Mark G. Kachigian, Reg. No. 32,840  
228 West 17th Place  
Tulsa, Oklahoma 74119  
(918) 584-4187  
Attorneys for Applicant

**New Title to be Inserted into Page 1:**  
**IMPROVEMENTS TO ELECTRONIC PROGRAM GUIDE**

**New Header to be Inserted on Page 1, before line 1:**

**--CROSS-REFERENCE TO RELATED APPLICATION**

This application claims priority to British Patent Application No.  
0019797.0 filed 12 August 2000

**BACKGROUND OF THE INVENTION-**

**Replacement Paragraphs to be Inserted in Page 1:**

As part of the processing of the data via a broadcast data receiver, there is a conditional access system utilized which allows the broadcast data receiver to be rendered inoperable if the user of the receiver is not authorized or has not subscribed to the particular service. In order to allow this to be achieved, it is typically the case that there is a processor integrated circuit provided by the broadcast service provider which can be activated and selectively deactivated by the broadcast service provider from time to time as they require. In order to render the receiver operable, the processor is typically mounted on a card, the size of a credit card, although it should be appreciated that this could be of any desired form, and said card is then inserted into a location slot in the receiver and in which position the processor on the card can be accessed and the receiver rendered operable. It will therefore be appreciated that for the receiver, the processor on the card is extremely important and it is important to the broadcaster that it is not damaged as this can cause failure of service to the user who may then become unhappy at the service being provided.

Header and paragraph to be Inserted into Page 2:

**SUMMARY OF THE INVENTION**

In a first aspect of the invention there is provided electrical apparatus for the processing of digital data and said apparatus is rendered operable by the insertion of a processor into the same for connection to the processing capability to render the capability operational and detection means are provided in connection with the mains power supply to the receiver, prior to rectification of the supply and characterized in that upon detection of failure or absence of AC pulses in the power supply, the processor capability, or parts of the processor capability of the apparatus are shut down in a controlled manner by the electrical apparatus.

Page 3, Before Line 28 Insert the Following Header:

**BRIEF DESCRIPTION OF THE DRAWINGS**

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Page 4, Before Line 4 Insert the Following Header:

## DESCRIPTION OF THE PREFERRED EMBODIMENTS

### Replacement Paragraphs for Page 4:

Figure 1 illustrates a device known as a smart card; and

Figure 2 illustrates the smart card of Figure 1 inserted in a broadcast data receiver in use.

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**New Paragraph for Page 6 to be Inserted After the Last Line:**

While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.

## Clean Version of the Claims

1. (Amended) An electrical apparatus for the processing of digital data, said electrical apparatus comprising: a processor inserted into said electrical apparatus to render said electrical apparatus operable for connection to a processing capability of the electrical apparatus to render the capability operational and detection means being provided in connection with the main power supply to the electrical apparatus, prior to rectification of the power supply and wherein upon detection of failure or absence of AC pulses in the power supply, the processor capability, or parts of the processor capability of the apparatus are shut down in a controlled manner by the electrical apparatus.
2. (Amended) An electrical apparatus according to claim 1 wherein said electrical apparatus is a broadcast data receiver.
3. (Amended) An electrical apparatus according to claim 2 wherein said shut-down procedures are performed prior to the mains power supply failure affecting said processor capability of said broadcast data receiver.
4. (Amended) An electrical apparatus according to claim 2 wherein said shut-down procedure includes shutting down said processing capability of the processor mounted on said smart card which is inserted into said broadcast data receiver and hence prevents damage to said processor.
5. (Amended) An electrical apparatus according to claim 4 wherein in addition or alternatively to the shut down of the processor mounted on said smart card, other shut-down procedures can be implemented.
6. (Amended) An electrical apparatus according to claim 5 wherein said shut down procedure includes storing data relating to a channel which is being viewed at the instant of a power failure.
7. (Amended) An electrical apparatus according to claim 2 wherein data relating to user selections being stored in a storage means as part of said shut down procedure.

8. (Amended) A broadcast data receiver, said receiver provided for the reception and processing of digital data for the generation of video, audio and auxiliary functions, said receiver comprising: a processor integrated circuit inserted into said broadcast data receiver for connection to the processing capability within the receiver and wherein detection means are provided in connection with the mains electricity supply to the receiver, prior to rectification and wherein upon detection of failure of AC pulses in the power supply, the processor capability, or parts of the processor capability of the broadcast data receiver being shut down.

9. (New) An electrical apparatus according to claim 1 wherein said processor is provided as part of a smart card.

1. A broadcast data receiver, said receiver provided for the reception and processing of digital data for the generation of video, audio and auxiliary functions, said receiver comprising: a processor integrated circuit inserted into said broadcast data receiver for connection to the processing capability within the receiver and wherein detection means are provided in connection with the mains electricity supply to the receiver, prior to rectification and wherein upon detection of failure of AC pulses in the power supply, the processor capability, or parts of the processor capability of the broadcast data receiver being shut down.